

1 **WHAT IS CLAIMED IS:**

- 2 1. A rail assembly for furniture having
- 3 a stationary track having an inner end;
- 4 an outer end;
- 5 a web having
- 6 an inner surface; and
- 7 an outer surface;
- 8 two side edges; and
- 9 two longitudinal guides formed respectively at the side edges;
- 10 an internal track slidably mounted on the stationary track;
- 11 a sliding frame slidably mounted on the inner track and having
- 12 an inner end;
- 13 an outer end;
- 14 a web having an inner surface;
- 15 two protrusions formed on the inner surface of the web near the
- 16 inner end; and
- 17 a latch tab formed on the inner surface of the web a distance from
- 18 the protrusions toward the outer end;
- 19 a latch bracket mounted inside the stationary track at the inner end and
- 20 having
- 21 an inner end;
- 22 an outer end;
- 23 an upper rail having a longitudinal guide slot defined in the upper
- 24 rail and a transverse stop notch communicating with the longitudinal guide slot;

1 a lower rail parallel to the upper rail having a longitudinal guide
2 slot defined in the lower rail and a transverse stop notch communicating with
3 the longitudinal guide slot, wherein the longitudinal guide slots and the
4 transverse stop notches are aligned with each other;

5 a body formed on the inner end and having

6 a rear surface;

7 an outer end surface;

8 a top side;

9 a bottom side;

10 a cavity defined in the rear surface; and

11 a through hole defined in the outer end surface and

12 communicated with the cavity;

13 two keys formed respectively on the top side and the bottom side

14 of the body and mounted respectively inside the longitudinal guides of the

15 stationary track; and

16 a buffer mounted inside the cavity in the body to absorb closing

17 energy;

18 a resilient latch assembly slidable mounted inside the latch bracket and

19 having

20 a latch slidable mounted inside the latch bracket between the

21 upper rail and the lower rail and having

22 an outer end; an inner end; a front surface; a rear surface;

23 two sides; a middle portion; two guide posts being respectively formed on one

24 of the sides at the middle portion and slidably mounted inside the longitudinal

1 guide slots; two locking posts being respectively formed on the same sides as
2 the guide posts near the inner end and slidably mounted inside the longitudinal
3 guide slots; a spring bracket formed on the rear surface of the latch at the
4 middle portion with two notches; and a hook formed on the front surface at the
5 outer end; and

6 two springs being mounted between the latch and the body.

7 2. The rail assembly as claimed in claim 1, wherein

8 the web of the stationary track further comprises

9 two locking holes defined on the inner surface near the inner end
10 of the stationary track; and

11 a mounting tab formed on the inner surface of the stationary track
12 at a distance from the locking holes toward the outer end;

13 the latch bracket further comprises a mounting slot transversely defined
14 at the outer end;

15 the body of the latch bracket has

16 a rear surface; and

17 two protrusions formed on the rear surface and besides the cavity
18 to respectively engage with the corresponding locking holes in the stationary
19 track;

20 each key of the latch bracket has a spring holder to hold the springs of
21 the resilient latch assembly; and

22 each spring further has two necks mounted respectively inside the
23 spring holders and the latch bracket.

24 3. The rail assembly as claimed in claim 2, wherein the spring holders

1 communicate with cavity in the body.

2 4. The rail assembly as claimed in claim 1, wherein the buffer further

3 comprises a buffer spring; and

4 a tube receiving the buffer spring and having

5 an open end;

6 a closed end extending out of the through hole in the body; and

7 two wings formed at the open end of the tube to abut the cavity in

8 the body.